CLAIMS

1. A communication system having a plurality of communication apparatuses, characterized in that each of the plurality of communication apparatuses comprising:

5   first communication mean for executing a communication between each communication apparatus and other communication apparatus by a first communication protocol;

exchange means for exchanging communication information necessary to a communication executed by a second

10   communication protocol included in the communication protocols available by the other communication apparatus between the communication apparatus and the other communication apparatus by the communication executed by the first communication protocol;

15   switching means for switching the communication between each communication apparatus and the other communication apparatus from the communication executed by the first communication protocol to the communication executed by the second communication protocol; and

20   second communication mean for executing the communication by the second communication protocol between each communication apparatus and the other communication mean based on the communication information exchanged by the exchange means.

25   2. A communication apparatus for executing a

communication between the communication apparatus and other
communication apparatus, characterized by comprising:

first communication mean for executing a communication
between the communication apparatus and the other

5   communication apparatus by a first communication protocol;

acquisition means for acquiring the information of a
communication protocol available by the other communication
apparatus through the communication executed by the first
communication protocol;

10   exchange means for exchanging communication information
necessary to a communication executed using a second
communication protocol included in the communication
protocol available by the other communication apparatus
between each communication apparatus and the other

15   communication apparatus by the communication executed using
the first communication protocol;

switching means for switching the communication between
the communication apparatus and the other communication
apparatus from the communication executed by the first

20   communication protocol to the communication executed using
the second communication protocol; and

second communication mean for executing the
communication by the second communication protocol between
the communication apparatus and the other communication

25   apparatus based on the communication information exchanged

by the exchange means.

3. A communication apparatus according to claim 2, characterized in that the communication executed by the first and second communication protocols is a wireless
5 communication, and, when the other communication apparatus is located in the vicinity of the communication apparatus, the first communication mean executes the communication by the first communication protocol between the communication apparatus and the other communication apparatus.

10 4. A communication apparatus according to claim 3, characterized in that, in the first communication protocol, the communication is executed by specifying the other communication apparatus located in the vicinity of the communication apparatus.

15 5. A method of executing a communication between a communication apparatus and other communication apparatus, characterized by comprising:

a first communication step of executing a communication between the communication apparatus and the other
20 communication apparatus by a first communication protocol;

an acquisition step of acquiring the information of a communication protocol available by the other communication apparatus by the communication executed by the first communication protocol;

25 an exchange step of exchanging communication

information necessary to a communication executed by a
second communication protocol included in the communication
protocols available by the other communication apparatus
between the communication apparatus and the other

5   communication apparatus by the communication executed by the
first communication protocol;

        a switching step of switching the communication between
the communication apparatus and the other communication
apparatus from the communication executed by the first

10 communication protocol to the communication executed by the
second communication protocol; and

        a second communication step of executing the
communication by the second communication protocol between
the communication apparatus and the other communication

15 apparatus based on the communication information exchanged
at the exchange step.

        6.   A program for causing a computer to execute
communication processing for executing a communication
between a communication apparatus and other communication

20 apparatus, comprising:

        a first communication step of executing a communication
between the communication apparatus and the other
communication apparatus by a first communication protocol;

        an acquisition step of acquiring the information of a

25 communication protocol available by the other communication

apparatus by the communication executed by the first communication protocol;

an exchange step of exchanging communication information necessary to a communication executed by a

5 second communication protocol included in the communication protocols available by the other communication apparatus between the communication apparatus and the other communication apparatus by the communication executed by the first communication protocol;

10 a switching step of switching the communication between the communication apparatus and the other communication apparatus from the communication executed by the first communication protocol to the communication executed by the second communication protocol; and

15 a second communication step of executing the communication by the second communication protocol between the communication apparatus and the other communication apparatus based on the communication information exchanged at the exchange step.